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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C. 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 03 May 2000 (03.05.00)	Applicant's or agent's file reference PDC/AB/20725
International application No. PCT/IB99/01584	Priority date (day/month/year) 16 September 1998 (16.09.98)
International filing date (day/month/year) 16 September 1999 (16.09.99)	
Applicant CHOULETTE, Denis et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

17 March 2000 (17.03.00)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Olivia RANAIVOJAONA

Telephone No.: (41-22) 338.83.38

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PDC/AB/20725	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IB99/01584	International filing date (day/month/year) 16/09/1999	Priority date (day/month/year) 16/09/1998
International Patent Classification (IPC) or national classification and IPC H04N7/16		
Applicant CANAL+SOCIETE ANONYME et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 10 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☒ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☒ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 17/03/2000	Date of completion of this report 20.12.2000
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Moorhouse, D Telephone No. +49 89 2399 8631 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IB99/01584

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-27 as originally filed

Claims, No.:

1-53 as originally filed

Drawings, sheets:

1/9-9/9 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IB99/01584

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):
(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:
- ☐ the entire international application.
 - ☒ claims Nos. 47-49.

because:

- ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):
 - ☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 47-49 are so unclear that no meaningful opinion could be formed (*specify*):
see separate sheet
 - ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
 - ☐ no international search report has been established for the said claims Nos. .
2. A meaningful international preliminary examination report cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
- ☐ the written form has not been furnished or does not comply with the standard.
 - ☐ the computer readable form has not been furnished or does not comply with the standard.

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:
- ☐ restricted the claims.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB99/01584

- ☐ paid additional fees.
 - ☐ paid additional fees under protest.
 - ☒ neither restricted nor paid additional fees.
2. ☐ This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
- ☐ complied with.
 - ☒ not complied with for the following reasons:
see separate sheet
4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:
- ☐ all parts.
 - ☒ the parts relating to claims Nos. 1-20, 47-49.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-20
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-20
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-20
	No:	Claims	

2. Citations and explanations **see separate sheet**

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IB99/01584

see separate sheet

Concerning Box III

Claims 47 to 49 are not considered with respect to Box V, for reasons set out below with respect of Box VII.

Concerning Box IV

The present international application contains the following groups of claims :-

- (I) Claims 1 to 20, 47 to 49;
- (II) Claims 21 to 30, 51;
- (III) Claims 31 to 46, 52, 53;

The claims of group (I) relate to access restriction in a decoder / receiver. The claims of group (II) relate to a new tree structure for files and directories stored in memory. The claims of group (III) relate to copying data from one memory page to another.

Thus, the claims of groups (I) to (III) specify totally independent technical solutions to completely different technical problems, and cannot be said to relate to a single invention. The claims as a whole therefore lack unity *a priori* (without reference to the state of the art).

Even if it is considered that the claims of the groups indicated above share the common feature that data stored in a memory (whatever the nature of the data) is processed, it is pointed out that storing data in a memory is so well known in the art, that the claims as a whole lack unity *a posteriori* (with reference to the state of the art). (See, for example, memories 22 and 30 in EP-A-0 809 401 or memories 26 and 30 in EP-A-0 820 193).

Since the Applicant has neither paid additional examination fees, nor restricted the claims, examination has been carried out pursuant to Article 34 (3) (c), first sentence and Rule 68.5 PCT, viz. only the first mentioned invention group is considered.

Concerning Box V

The following documents are cited :

D1 : DE-A-19 511 298

D2 : EP-A-0 809 401

Independent claims 5 and 19 and claims dependent thereon meet the requirements of Article 33 PCT, for the following reasons:

With reference to column 3 lines 11 to 20, this document describes a three level key hierarchy system. Each decoder D1 to D9 is assigned a respective decoder key K(2,1) to K(2,9). Each group of decoders is assigned a respective group key K(1,1) to K(1,3). The entire system is assigned a common system key SK.

With reference to column 3 lines 38 to 50, in order to deactivate decoder D9, for example, if the subscriber has not renewed his subscription, it is necessary to provide decoders D1 to D8 with a new system key. It is also necessary to provide decoders D7 and D8, which are members of the same group as deactivated decoder D9, with a new group key K(1,3). This is realized by broadcasting a series of messages to the decoders. Each message, illustrated in Figure 2, includes an address and a payload which are separated by a vertical line in Figure 2. By means of the address each decoder recognizes whether it needs to process a particular received message or not. The payload contains a cryptogram which can only be deciphered by the addressed decoders. In this context, the notation A means that the information B was encrypted by means of the key A.

With reference to column 3 line 51 to column 4 line 1, in order to replace the group key K(1,3) at decoders D7 and D8, it is necessary to transmit individual messages addressed to these decoders, each message being preceded by a respective address for one of the decoders and followed by the encrypted new group key, this key being encrypted with the decoder key of the addressed decoder. In order then to replace the system key SK, it is necessary to transmit a series of messages addressed to the respective groups of the system. In the disclosed embodiments, three messages are

transmitted. Each message is preceded by an address of a respective group for whom the message is intended, followed by the encrypted new session key, the session key being encrypted using the group key of the group to whom that message is addressed. In this way, decoder D9 is effectively "frozen out" from the system as it does not have the new system key SK.

Novelty

Document D1 does not disclose the features of claims 5 and 19.

Firstly, this document does not disclose storing sets of access rights and identifiers for the parties within the data. In this cited document, the data can be considered to be the new session key SK (or new group key $K(1,3)$). The access rights could be equated to the keys required to decipher the enciphered session key (or group key). However, these keys are not stored with the enciphered session key (or group key). To do so would render the system highly insecure, as a third party could intercept a message including both an enciphered key and the key used to encipher that key. This would provide the third party with the means for deciphering the enciphered key, enabling the third party to receive keys and subsequently enciphered data intended for another party.

Secondly this cited document does not disclose comparing the identifier of a party requesting access to data with the identifier stored in the memory and providing the party with a set of access rights assigned thereto in the memory of the receiver/decoder. In the cited document, when the address of the message is the same as that of the decoder, or group of decoders, the enciphered payload is deciphered using the appropriate key in order to provide the decoder with the deciphered key. There is no disclosure whatsoever that the enciphered message is used to provide the party with the key used to encipher the data, as this key must already have been pre-stored in the decoder.

Therefore, the subject-matter of claims 5 and 19 is novel with respect to the disclosure of document D1.

Inventive Step

As discussed above, document D1 does not disclose the features of claims 5 and 19. Neither does it contain any hint or suggestion of those features, in particular because

each decoder is a party with certain access rights to program material, and there is no suggestion that each decoder may allocate further access rights to any one else.

The subject-matter of independent claims 1 and 17 does not relate to the transmission and reception of the access rights as in independent claims 5 and 19. However, these claims do mention the storing of access rights and identifiers, and the granting of access rights after comparison of a requester's identity with those stored. As will be apparent from the above discussion, such is not disclosed or suggested in document D1.

The remaining documents cited in the International Search Report, summarized below, are of less relevance.

EP-A-0 809 401 (D2) Discloses a decoder which can be serviced using enciphered service data, and which uses its inbuilt decipherer during said servicing. There is no mention of different access rights for different parties, or the processing thereof.

EP-A-0 820 193 Discloses a TV decoder or mobile phone which allows the user to use a second provider, on the condition that the subscription to the first provider is older than a certain age. There is no mention of different access rights for different parties, or the processing thereof.

Concerning Box VII

The claims are not in the two-part form specified in Rule 6.3(b) PCT.

Reference signs as defined in Rule 6.2(b) PCT are absent from the claims.

The last sentence of the description on page 27 constitutes subject-matter pursuant to Rule 9.1 (iv) PCT. Moreover, the scope of protection sought is rendered unclear thereby, contrary to Article 6 PCT.

Claims 47 to 49 do not meet the requirements of Rule 6.2(a) PCT.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB99/01584

Concerning Box VIII

Claim 19 lacks clarity, and therefore does not meet the requirement set out in Article 6 PCT.

Claim 19

"The data" in the first claim feature lacks an antecedent.

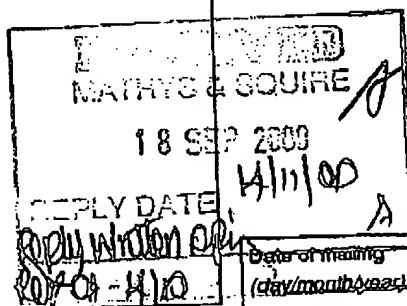
PATENT COOPERATION TREATY

From the:
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

COZENS, Paul Dennis
MATHYS & SQUIRE
100 Gray's Inn Road
London WC1X 8AL
GRANDE BRETAGNE



WRITTEN OPINION
(PCT Rule 66)

Applicant's or agent's file reference PDC/AB/20725		REPLY DUE within 2 month(s) from the above date of mailing
International application No. PCT/IB99/01584	International filing date (day/month/year) 16/09/1999	Priority date (day/month/year) 16/09/1998
International Patent Classification (IPC) or both national classification and IPC H04N7/16		
Applicant CANAL+SOCIETE ANONYME et al.		

1. This written opinion is the first drawn up by this International Preliminary Examining Authority.
2. This opinion contains indications relating to the following items:
 - I ☒ Basis of the opinion
 - II ☐ Priority
 - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - IV ☒ Lack of unity of invention
 - V ☒ Reasoned statement under Rule 66.2(a)(II) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - VI ☐ Certain document cited
 - VII ☒ Certain defects in the international application
 - VIII ☒ Certain observations on the international application
3. The applicant is hereby invited to reply to this opinion.


When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the languages of the amendments, see Rules 66.8 and 66.9.

Also: For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 16/01/2001.

Name and mailing address of the international preliminary examining authority:

 European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523666 epmu d
Fax: +49 89 2399 - 4465

Authorized officer / Examiner

Moorhouse, D

Formalities officer (incl. extension of time limits)
SCHALINATUS, D
Telephone No. +49 89 2399 8242



I. Basis of the opinion

1. This opinion has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".)*:

Description, pages:

1-27 as originally filed

Claims, No.:

1-53 as originally filed

Drawings, sheets:

1/9-9/9 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

IV. Lack of unity of invention

1. In response to the invitation (Form PCT/IPEA/405) to restrict or pay additional fees, the applicant has:

- ☐ restricted the claims.
☐ paid additional fees.
☐ paid additional fees under protest.
☒ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with for the following reasons

and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:

3. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this opinion:

☐ all parts.

☒ the parts relating to claims Nos. 1-20, 47-49.

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 5, 6, 8, 10, 19, 20 : No
Inventive step (IS)	Claims 7, 11-13, 16 : No
Industrial applicability (IA)	Claims

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Concerning Box IV

The present international application contains the following groups of claims :-

- (I) Claims 1 to 20, 47 to 49;
- (II) Claims 21 to 30, 51;
- (III) Claims 31 to 46, 52, 53;

The claims of group (I) relate to access restriction in a decoder / receiver. The claims of group (II) relate to a new tree structure for files and directories stored in memory. The claims of group (III) relate to copying data from one memory page to another.

Thus, the claims of groups (I) to (III) specify totally independent technical solutions to completely different technical problems, and cannot be said to relate to a single invention. The claims as a whole therefore lack unity *a priori* (without reference to the state of the art).

Even if it is considered that the claims of the groups indicated above share the common feature that data stored in a memory (whatever the nature of the data) is processed, it is pointed out that storing data in a memory is so well known in the art, that the claims as a whole lack unity *a posteriori* (with reference to the state of the art). (See, for example, memories 22 and 30 in EP-A-0 809 401 or memories 26 and 30 in EP-A-0 820 193).

Since the Applicant has neither paid additional examination fees, nor restricted the claims, examination is being carried out pursuant to Article 34 (3) (c), first sentence and Rule 68.5 PCT, viz. only the first mentioned alleged invention is considered.

Concerning Box V

The following documents are cited :

D1 : DE-A-19 511 298

D2 : EP-A-0 809 401

The subject-matter of claims 5, 6, 8, 10, 19 and 20 lacks novelty with respect to the disclosure of document D1, and thus does not meet the requirement set out in Article 33 (2) PCT.

Document D1 discloses a method of restricting access to data broadcast in a digital broadcast system, said method comprising the steps, at a transmitting system, of:
assigning a plurality of sets of access rights to the data (SK(0,1); K(1,1) - K(1,3)), each set of access rights being assigned to at least one party (D1 to D9; D1 to D3 or D4 to D6 or D7 to D9);

storing the sets of access rights and identifiers for the parties within the data and transmitting the data (see Figure 2);

and, at a receiver/decoder having a memory, the steps of:

downloading and storing the transmitted data in the memory of the receiver/decoder;

comparing the identifier of a party requesting access to the data with the identifiers stored in the memory; and

providing the party with the set of access rights assigned thereto in the memory of the receiver/decoder (these receiver steps are implicit in the disclosure of claim 4, column 2, lines 61 to 67; and column 3, line 52 to column 4, line 1).

The subject-matter of claim 5 is thus known from document D1.

For similar reasons, the corresponding apparatus in claim 19 is not novel, neither is the combination thereof with a decoder, as claimed in claim 20.

The subject-matter of claims 6, 8 and 10 is either implicit in the disclosure of document D1 (claim 6) or is disclosed therein (claim 8 - see keys K(2,1) to K(2,9) - "preferably" being ignored as non-limiting (PCT Guidelines, PG-III, 4.6); claim 10 since these keys determine whether video data can be viewed or GSM data can be heard).

The subject-matter of claims 7, 11 to 13 and 16 lacks an inventive step, and therefore does not meet the requirement set out in Article 33 (3) PCT.

The additional features specified in these claims relate to obvious design choices as regards dealing with non-authorised viewers (claim 7) or the organisation of data within the decoder memory (claims 11 to 13), the suggestion of which would cause no undue difficulties to the skilled person realising the teachings of document D1. Moreover, the use of flash memory (claim 16) is rendered obvious by the disclosure of document D2, from the same technical field as document D1 and the present application.

Concerning Box VII

The claims are not in the two-part form specified in Rule 6.3(b) PCT.

Reference signs as defined in Rule 6.2(b) PCT are absent from the claims.

The last sentence of the description on page 27 constitutes subject-matter pursuant to Rule 9.1 (iv) PCT. Moreover, the scope of protection sought is rendered unclear thereby, contrary to Article 6 PCT.

Claims 47 to 49 do not meet the requirements of Rule 6.2(a) PCT.

Concerning Box VIII

Claim 19 lacks clarity, and therefore does not meet the requirement set out in Article 6 PCT.

Claim 19

"The data" in the first claim feature lacks an antecedent.



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Europäisches
Patentamt

Generaldirektion 2

European
Patent Office

Directorate General 2

Office européen
des brevets

Direction Générale 2

Correspondence with the EPO on PCT Chapter II demands

In order to ensure that your PCT Chapter II demand is dealt with as promptly as possible you are requested to use the enclosed self-adhesive labels with any correspondence relating to the demand sent to the Munich Office.

One of these labels should be affixed to a prominent place in the upper part of the letter or form etc. which you are filing.

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

COZENS, Paul Dennis
MATHYS & SQUIRE
100 Gray's Inn Road
London WC1X 8AL
GRANDE BRETAGNE

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year) 20.12.2000

Applicant's or agent's file reference
PDC/AB/20725

IMPORTANT NOTIFICATION

International application No.
PCT/IB99/01584

International filing date (day/month/year)
16/09/1999

Priority date (day/month/year)
16/09/1998

Applicant
CANAL+SOCIETE ANONYME et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

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Authorized officer

SCHALINATUS, D

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PDC/AB/20725		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IB99/01584	International filing date (day/month/year) 16/09/1999	Priority date (day/month/year) 16/09/1998	
International Patent Classification (IPC) or national classification and IPC H04N7/16			
Applicant CANAL+SOCIETE ANONYME et al.			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 10 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none">I <input checked="" type="checkbox"/> Basis of the reportII <input type="checkbox"/> PriorityIII <input checked="" type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicabilityIV <input checked="" type="checkbox"/> Lack of unity of inventionV <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statementVI <input type="checkbox"/> Certain documents citedVII <input checked="" type="checkbox"/> Certain defects in the international applicationVIII <input checked="" type="checkbox"/> Certain observations on the international application			
Date of submission of the demand 17/03/2000		Date of completion of this report 20.12.2000	
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized officer Moorhouse, D Telephone No. +49 89 2399 8631	



**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IB99/01584

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-27 as originally filed

Claims, No.:

1-53 as originally filed

Drawings, sheets:

1/9-9/9 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB99/01584

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application.

☒ claims Nos. 47-49.

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 47-49 are so unclear that no meaningful opinion could be formed (*specify*):
see separate sheet

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for the said claims Nos. .

2. A meaningful international preliminary examination report cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:

☐ restricted the claims.

Concerning Box III

Claims 47 to 49 are not considered with respect to Box V, for reasons set out below with respect of Box VII.

Concerning Box IV

The present international application contains the following groups of claims :-

- (I) Claims 1 to 20, 47 to 49;
- (II) Claims 21 to 30, 51;
- (III) Claims 31 to 46, 52, 53;

The claims of group (I) relate to access restriction in a decoder / receiver. The claims of group (II) relate to a new tree structure for files and directories stored in memory. The claims of group (III) relate to copying data from one memory page to another.

Thus, the claims of groups (I) to (III) specify totally independent technical solutions to completely different technical problems, and cannot be said to relate to a single invention. The claims as a whole therefore lack unity **a priori** (without reference to the state of the art).

Even if it is considered that the claims of the groups indicated above share the common feature that data stored in a memory (whatever the nature of the data) is processed, it is pointed out that storing data in a memory is so well known in the art, that the claims as a whole lack unity **a posteriori** (with reference to the state of the art). (See, for example, memories 22 and 30 in EP-A-0 809 401 or memories 26 and 30 in EP-A-0 820 193).

Since the Applicant has neither paid additional examination fees, nor restricted the claims, examination has been carried out pursuant to Article 34 (3) (c), first sentence and Rule 68.5 PCT, viz. only the first mentioned invention group is considered.

Concerning Box V

The following documents are cited :

D1 : DE-A-19 511 298

D2 : EP-A-0 809 401

Independent claims 5 and 19 and claims dependent thereon meet the requirements of Article 33 PCT, for the following reasons:

With reference to column 3 lines 11 to 20, this document describes a three level key hierarchy system. Each decoder D1 to D9 is assigned a respective decoder key K(2,1) to K(2,9). Each group of decoders is assigned a respective group key K(1,1) to K(1,3). The entire system is assigned a common system key SK.

With reference to column 3 lines 38 to 50, in order to deactivate decoder D9, for example, if the subscriber has not renewed his subscription, it is necessary to provide decoders D1 to D8 with a new system key. It is also necessary to provide decoders D7 and D8, which are members of the same group as deactivated decoder D9, with a new group key K(1,3). This is realized by broadcasting a series of messages to the decoders. Each message, illustrated in Figure 2, includes an address and a payload which are separated by a vertical line in Figure 2. By means of the address each decoder recognizes whether it needs to process a particular received message or not. The payload contains a cryptogram which can only be deciphered by the addressed decoders. In this context, the notation A means that the information B was encrypted by means of the key A.

With reference to column 3 line 51 to column 4 line 1, in order to replace the group key K(1,3) at decoders D7 and D8, it is necessary to transmit individual messages addressed to these decoders, each message being preceded by a respective address for one of the decoders and followed by the encrypted new group key, this key being encrypted with the decoder key of the addressed decoder. In order then to replace the system key SK, it is necessary to transmit a series of messages addressed to the respective groups of the system. In the disclosed embodiments, three messages are

transmitted. Each message is preceded by an address of a respective group for whom the message is intended, followed by the encrypted new session key, the session key being encrypted using the group key of the group to whom that message is addressed. In this way, decoder D9 is effectively "frozen out" from the system as it does not have the new system key SK.

Novelty

Document D1 does not disclose the features of claims 5 and 19.

Firstly, this document does not disclose storing sets of access rights and identifiers for the parties within the data. In this cited document, the data can be considered to be the new session key SK (or new group key $K(1,3)$). The access rights could be equated to the keys required to decipher the enciphered session key (or group key). However, these keys are not stored with the enciphered session key (or group key). To do so would render the system highly insecure, as a third party could intercept a message including both an enciphered key and the key used to encipher that key. This would provide the third party with the means for deciphering the enciphered key, enabling the third party to receive keys and subsequently enciphered data intended for another party.

Secondly this cited document does not disclose comparing the identifier of a party requesting access to data with the identifier stored in the memory and providing the party with a set of access rights assigned thereto in the memory of the receiver/decoder. In the cited document, when the address of the message is the same as that of the decoder, or group of decoders, the enciphered payload is deciphered using the appropriate key in order to provide the decoder with the deciphered key. There is no disclosure whatsoever that the enciphered message is used to provide the party with the key used to encipher the data, as this key must already have been pre-stored in the decoder.

Therefore, the subject-matter of claims 5 and 19 is novel with respect to the disclosure of document D1.

Inventive Step

As discussed above, document D1 does not disclose the features of claims 5 and 19. Neither does it contain any hint or suggestion of those features, in particular because

each decoder is a party with certain access rights to program material, and there is no suggestion that each decoder may allocate further access rights to any one else.

The subject-matter of independent claims 1 and 17 does not relate to the transmission and reception of the access rights as in independent claims 5 and 19. However, these claims do mention the storing of access rights and identifiers, and the granting of access rights after comparison of a requester's identity with those stored. As will be apparent from the above discussion, such is not disclosed or suggested in document D1.

The remaining documents cited in the International Search Report, summarized below, are of less relevance.

EP-A-0 809 401 (D2) Discloses a decoder which can be serviced using enciphered service data, and which uses its inbuilt decipherer during said servicing. There is no mention of different access rights for different parties, or the processing thereof.

EP-A-0 820 193 Discloses a TV decoder or mobile phone which allows the user to use a second provider, on the condition that the subscription to the first provider is older than a certain age. There is no mention of different access rights for different parties, or the processing thereof.

Concerning Box VII

The claims are not in the two-part form specified in Rule 6.3(b) PCT.

Reference signs as defined in Rule 6.2(b) PCT are absent from the claims.

The last sentence of the description on page 27 constitutes subject-matter pursuant to Rule 9.1 (iv) PCT. Moreover, the scope of protection sought is rendered unclear thereby, contrary to Article 6 PCT.

Claims 47 to 49 do not meet the requirements of Rule 6.2(a) PCT.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB99/01584

Concerning Box VIII

Claim 19 lacks clarity, and therefore does not meet the requirement set out in Article 6 PCT.

Claim 19

"The data" in the first claim feature lacks an antecedent.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PDC/AB/20725	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IB 99/01584	International filing date (day/month/year) 16/09/1999	(Earliest) Priority Date (day/month/year) 16/09/1998
Applicant CANAL+SOCIETE ANONYME et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

5



None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

T/IB 99/01584

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N7/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	DE 195 11 298 A (DEUTSCHE TELEKOM AG) 2 October 1996 (1996-10-02) column 1, line 8 -column 4, line 1 figures 1,2 ---	1,5,7, 9-13,17 21-46
A	EP 0 809 401 A (PHILIPS ELECTRONICS NV) 26 November 1997 (1997-11-26) page 2, column 2, line 36 -page 4, column 5, line 22 figure 1 ---	1-46
A	EP 0 820 193 A (PHILIPS ELECTRONICS NV) 21 January 1998 (1998-01-21) page 2, column 2, line 33 -page 4, column 5, line 6 figures 1-3 -----	1-46

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

3 November 1999

Date of mailing of the international search report

09/11/1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van der Zaal, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 99/01584

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19511298 A	02-10-1996	NONE	
EP 0809401 A	26-11-1997	FR 2749118 A JP 10056631 A	28-11-1997 24-02-1998
EP 0820193 A	21-01-1998	FR 2751449 A JP 10117336 A	23-01-1998 06-05-1998

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

MATHYS & SQUIRE
Attn. COZENS, PAUL D.
100 Gray's Inn Road
London WC1X 8AL
UNITED KINGDOM

RECEIVED

MATHYS & SQUIRE

12 NOV 1999

REPLY DATE

Vol. Amend

DIARY ENTERED

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Rep. 9/12

Date of mailing
(day/month/year)

09/11/1999

Applicant's or agent's file reference

PDC/AB/20725

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/IB 99/ 01584

International filing date

(day/month/year)

16/09/1999

Applicant

CANAL+SOCIETE ANONYME et al.

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Shantisaroop Pherai

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PDC/AB/20725	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IB 99/01584	International filing date (day/month/year) 16/09/1999	(Earliest) Priority Date (day/month/year) 16/09/1998
Applicant CANAL+SOCIETE ANONYME et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

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☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

5

☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N7/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	DE 195 11 298 A (DEUTSCHE TELEKOM AG) 2 October 1996 (1996-10-02) column 1, line 8 -column 4, line 1 figures 1,2	1,5,7, 9-13,17 21-46
A	EP 0 809 401 A (PHILIPS ELECTRONICS NV) 26 November 1997 (1997-11-26) page 2, column 2, line 36 -page 4, column 5, line 22 figure 1	1-46
A	EP 0 820 193 A (PHILIPS ELECTRONICS NV) 21 January 1998 (1998-01-21) page 2, column 2, line 33 -page 4, column 5, line 6 figures 1-3	1-46

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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